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1 Topology optimization design of flextensional actuators

Silva, E.C.N.; Nishiwaki, S.; Kikuchi, N.;

Ultrasonics, Ferroelectrics and Frequency Control, IEEE Transactions on , Volu 47 , Issue: 3 , May 2000

Pages:657 - 671

[\[Abstract\]](#) [\[PDF Full-Text \(700 KB\)\]](#) **IEEE JNL**

2 A blind source separation cascading separation and linearization for order nonlinear mixtures

Nishiwaki, T.; Nakayama, K.; Hirano, A.;

Acoustics, Speech, and Signal Processing, 2004. Proceedings. (ICASSP '04). IE International Conference on , Volume: 5 , 17-21 May 2004

Pages:V - 569-72 vol.5

[\[Abstract\]](#) [\[PDF Full-Text \(261 KB\)\]](#) **IEEE CNF**

3 A PT-IGBT with a p-/n+ buffer layer

Ishiko, M.; Kawaji, S.; Nishiwaki, K.; Ohnishi, T.;

Power Semiconductor Devices and ICs, 2003. Proceedings. ISPSD '03. 2003 IE 15th International Symposium on , 14-17 April 2003

Pages:341 - 344

[\[Abstract\]](#) [\[PDF Full-Text \(293 KB\)\]](#) **IEEE CNF**

4 A cascade form blind source separation connecting source separation and linearization for nonlinear mixtures

Nakayama, K.; Hirano, A.; Nishiwaki, T.;

Neural Networks, 2003. Proceedings of the International Joint Conference on , Volume: 3 , 20-24 July 2003

Pages:1856 - 1861 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(383 KB\)\]](#) **IEEE CNF**



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1 Fracture testing of bulk silicon microcantilever beams subjected to a side load
Wilson, C.J.; Beck, P.A.;

 Microelectromechanical Systems, Journal of , Volume: 5 , Issue: 3 , Sept. 199
 Pages:142 - 150

[\[Abstract\]](#) [\[PDF Full-Text \(1392 KB\)\]](#) **IEEE JNL**
2 Linear quadratic distributed self tuning control of vibration in one dimensional cantilever beams
Gopinathan, M.; Pajunen, G.A.; Neelakanta, P.S.; Arockiasamy, M.;

 Southcon/95. Conference Record , 7-9 March 1995
 Pages:117 - 122

[\[Abstract\]](#) [\[PDF Full-Text \(352 KB\)\]](#) **IEEE CNF**
3 Characterization of selective polysilicon deposition for MEMS resonator tuning
Joachim, D.; Liwei Lin;

 Microelectromechanical Systems, Journal of , Volume: 12 , Issue: 2 , April 200
 Pages:193 - 200

[\[Abstract\]](#) [\[PDF Full-Text \(1197 KB\)\]](#) **IEEE JNL**
4 Surface/bulk micromachined single-crystalline-silicon micro-gyroscopes
Sangwoo Lee; Sangjun Park; Jongpal Kim; Sangchul Lee; Dong-Il Cho;

 Microelectromechanical Systems, Journal of , Volume: 9 , Issue: 4 , Dec. 2000
 Pages:557 - 567

[\[Abstract\]](#) [\[PDF Full-Text \(676 KB\)\]](#) **IEEE JNL**
5 Characterization of AlGaAs microstructure fabricated by AlGaAs/GaAs micromachining

Uenishi, Y.; Tanaka, H.; Ukita, H.;

Electron Devices, IEEE Transactions on , Volume: 41 , Issue: 10 , Oct. 1994
Pages:1778 - 1783

[\[Abstract\]](#) [\[PDF Full-Text \(580 KB\)\]](#) IEEE JNL

**6 Air-coupled ultrasound and rapid elastic property characterization u
focused acoustic beams**

Chimenti, D.E.; Holland, S.D.;

Ultrasonics, 2003 IEEE Symposium on , Volume: 1 , 5-8 Oct. 2003
Pages:266 - 275 Vol.1

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7 Theoretical modeling of boundary conditions in microfabricated beam

Mullen, R.L.; Mehregany, M.; Omar, M.P.; Ko, W.H.;

Micro Electro Mechanical Systems, 1991, MEMS '91, Proceedings. 'An Investiga
of Micro Structures, Sensors, Actuators, Machines and Robots'. IEEE , 30 Jan.-
Feb. 1991
Pages:154 - 159

[\[Abstract\]](#) [\[PDF Full-Text \(356 KB\)\]](#) IEEE CNF

8 Inverse problems for distributed parameter systems

Banks, H.T.;

Decision and Control, 1990., Proceedings of the 29th IEEE Conference on ; 5-7
Dec. 1990
Pages:13 - 16 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(332 KB\)\]](#) IEEE CNF

9 Adaptive vibration isolation for axially moving beams

Li, Y.; Rahn, C.D.;

Mechatronics, IEEE/ASME Transactions on , Volume: 5 , Issue: 4 , Dec. 2000
Pages:419 - 428

[\[Abstract\]](#) [\[PDF Full-Text \(284 KB\)\]](#) IEEE JNL

**10 Frequency changes in aerodynamically excited resonating
micromachined beams**

Wylde, J.; Wilke, R.; Hubbard, T.;

Electrical and Computer Engineering, 2000 Canadian Conference on , Volume:
2 , 7-10 March 2000
Pages:961 - 965 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(504 KB\)\]](#) IEEE CNF

11 Dynamic analysis of the BPX machine structure

Dahlgren, F.; Citrolo, J.; Knutson, D.; Kalish, M.;

Fusion Engineering, 1991. Proceedings., 14th IEEE/NPSS Symposium on , 30
Sept.-3 Oct. 1991
Pages:47 - 49 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(296 KB\)\]](#) IEEE CNF

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Accession number & update

4002804, C91069459; 911114.

Title

Modeling of the slewing control of a flexible **structure**.

Author(s)

[Garcia-E](#); [Inman-D-J](#).

Author affiliation

State Univ of New York, Buffalo, NY, USA.

Source

Journal-of-Guidance-Control-and-Dynamics (USA), vol.14, no.4, p.736-42, July-Aug. 1991.

CODEN

JGCDDT.

ISSN

ISSN: 0731-5090, CCCC: 0731-5090/91/ (\$2.00+.50).

Publication year

1991.

Language

EN.

Publication type

J Journal Paper.

Treatment codes

T Theoretical or Mathematical.

Abstract

Presents a formulation for the modeling of a single-link flexible **beam** that is undergoing slewing motion at an actively controlled pinned end, where the other end of the **beam** is free. This pinned end, or slewing axis, is of fixed orientation such that the **beam** rotates in the horizontal plane. A geared DC electric motor is connected to the **beam** at the slewing axis. A position and a velocity sensor are placed at this hinged location, and their proportional feedback provides a position control system about the slewing axis. The motor characteristics, gear ratio, and the position feedback constant determine an equivalent rotational spring constant, often called the servo **stiffness**. The paper generalizes the **structure's boundary** conditions at the slewing axis to include the effects of the servo system. (15 refs).

Descriptors

[aerospace-control](#); [control-system-analysis](#); [feedback](#); [position-control](#); [servomechanisms](#).

Keywords

DC motors; structural **boundary condition**; aerospace control; slewing control; flexible **structure**; modeling; flexible **beam**; position control; feedback; servo **stiffness**.

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File: PGPB

Jul 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020091502

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020091502 A1

TITLE: Method of modeling of faulting and fracturing in the earth

PUBLICATION-DATE: July 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Malthe-Sorensen, Anders	Oslo	OK	NO	
Walmann, Thomas	Osteras		NO	
Jossang, Torstein	Oslo		NO	
Wagner, Geri	Allschwil		CH	
Feder, Jens	Oslo		NO	
Hardy, Humphrey H.	Ponca City		US	

US-CL-CURRENT: 703/2; 703/10

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☐ 2. Document ID: US 20020029137 A1

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File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020029137

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020029137 A1

TITLE: Method of modeling of faulting and fracturing in the earth

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Malthe-Sorensen, Anders	Oslo	OK	NO	
Walmann, Thomas	Osteras		NO	
Jossang, Torstein	Oslo		NO	
Feder, Jens	Oslo		NO	

Hardy, Humphrey H.

Ponca City

US

US-CL-CURRENT: 703/10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw De
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☐ 3. Document ID: US 20020010570 A1

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File: PGPB

Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020010570

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020010570 A1

TITLE: Method of modeling of faulting and fracturing in the earth

PUBLICATION-DATE: January 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Malthe-Sorensen, Anders	Oslo	OK	NO	
Walmann, Thomas	Osteras		NO	
Jossang, Torstein	Oslo		NO	
Wagner, Geri	Allschwil		CH	
Feder, Jens	Oslo		NO	
Hardy, Humphrey H.	Ponca City		US	

US-CL-CURRENT: 703/10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw De
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L6: Entry 4 of 6

File: USPT

Apr 9, 2002

US-PAT-NO: 6370491

DOCUMENT-IDENTIFIER: US 6370491 B1

**** See image for Certificate of Correction ****TITLE: Method of modeling of faulting and fracturing in the earth

DATE-ISSUED: April 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Malthe-Sorensen; Anders	Oslo			NO
Walmann; Thomas	.O slashed.ster.ang.s			NO
Jossang; Torstein	Oslo			NO
Feder; Jens	Oslo			NO
Hardy; Humphrey H.	Ponca City	OK		

US-CL-CURRENT: 703/2; 702/14, 702/6, 703/1, 703/10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 5. Document ID: US 5891131 A

L6: Entry 5 of 6

File: USPT

Apr 6, 1999

US-PAT-NO: 5891131

DOCUMENT-IDENTIFIER: US 5891131 A

TITLE: Method and apparatus for automated simulation and design of corneal refractive procedures

DATE-ISSUED: April 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rajan; Subramaniam D.	Chandler	AZ		
Mobasher; Barzin	Scottsdale	AZ		
Hall; Gary W.	Paradise Valley	AZ		

US-CL-CURRENT: 606/5; 351/212, 606/6

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☐ 6. Document ID: US 5615116 A

L6: Entry 6 of 6

File: USPT

Mar 25, 1997

US-PAT-NO: 5615116

DOCUMENT-IDENTIFIER: US 5615116 A

TITLE: Apparatus and method for autonomous vehicle navigation using path data

DATE-ISSUED: March 25, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gudat; Adam J.	Edelstein	IL		
Rao; Prithvi N.	Pittsburgh	PA		
Shaffer; Gary K.	Butler	PA		
Shi; WenFan	Pittsburgh	PA		
Shin; Dong H.	Pittsburgh	PA		
Whittaker; William L.	Pittsburgh	PA		
Kleimenhagen; Karl W.	Peoria	IL		
West; Jay H.	Pittsburgh	PA		
Clow; Richard G.	Phoenix	AZ		
Singh; Sanjiv J.	Pittsburgh	PA		
Christensen; Dana A.	Peoria	IL		
Kemner; Carl A.	Peoria Heights	IL		
Bradbury; Walter J.	Peoria	IL		
Koehrsen; Craig L.	Peoria	IL		

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Lay; Norman K.	Peoria	IL
Peterson; Joel L.	Peoria	IL
Schmidt; Larry E.	Peoria	IL
Stafford; Darrell E.	Dunlap	IL
Weinbeck; Louis J.	Peoria	IL
Devier; Lonnie J.	Pittsburgh	PA

US-CL-CURRENT: 701/23; 180/167, 318/587, 701/202, 701/213, 701/301

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